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**From:** Kraft, Andrew [Kraft.Andrew@epa.gov]  
**Sent:** 2/29/2016 2:24:24 PM  
**To:** Fritz, Jason [Fritz.Jason@epa.gov]  
**CC:** Glenn, Barbara [Glenn.Barbara@epa.gov]; Kraft, Andrew [Kraft.Andrew@epa.gov]  
**Subject:** RE: mucociliary function  
**Attachments:** Mucociliaryfn022516.docx

Ex. 5 Deliberative Process (DP)

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**From:** Fritz, Jason  
**Sent:** Monday, February 29, 2016 9:11 AM  
**To:** Kraft, Andrew <Kraft.Andrew@epa.gov>  
**Cc:** Glenn, Barbara <Glenn.Barbara@epa.gov>  
**Subject:** RE: mucociliary function

Sounds fine.

Ex. 5 Deliberative Process (DP)

Doesn't matter too much wither way...  
jf

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**From:** Kraft, Andrew  
**Sent:** Friday, February 26, 2016 12:33 PM  
**To:** Fritz, Jason <Fritz.Jason@epa.gov>  
**Cc:** Glenn, Barbara <Glenn.Barbara@epa.gov>  
**Subject:** RE: mucociliary function

This is what the human paper I can find (I don't have the original) says:

For formaldehyde, which is even more water-soluble than SO<sub>2</sub>, a similar picture is seen, as the mucus flow rate decreases in the anterior two-thirds of the nose during exposures from 0.3 to 2.0 mg in-3 (0.24, 1.63 ppm) whereas no effects are found in the posterior third. There is no further reduction when the exposure period is increased from 1-3 to 4-6 h. Mucostasis is never found"

Ex. 5 Deliberative Process (DP)

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**From:** Fritz, Jason  
**Sent:** Thursday, February 25, 2016 4:37 PM  
**To:** Kraft, Andrew <Kraft.Andrew@epa.gov>  
**Subject:** RE: mucociliary function

Looking over this now:

Ex. 5 Deliberative Process (DP)

# Ex. 5 Deliberative Process (DP)

Overall, it looks like we're saying the same things, so that's great! Just a suggestion or two in track changes...

Thanks,

jf

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**From:** Kraft, Andrew

**Sent:** Thursday, February 25, 2016 2:29 PM

**To:** Fritz, Jason <[Fritz.Jason@epa.gov](mailto:Fritz.Jason@epa.gov)>

**Subject:** Fw: mucociliary function

FYI.

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**From:** Kraft, Andrew

**Sent:** Thursday, February 25, 2016 2:00 PM

**To:** Glenn, Barbara

**Cc:** Kraft, Andrew

**Subject:** mucociliary function

Hi Barbara,

Here is my first quick-pass at the summary of mucociliary function tests. I'm sure that you'll want to make a few tweaks, but it's pretty limited stuff:

**Ex. 5 Deliberative Process (DP)**

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Check one more box, now on to proliferation.

Andrew